Lajas Valley Area, Puerto Rico

Chemical Properties of the Soils

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth 	Cation exchange capacity 	Effective cation exchange capacity	Soil reaction 	Calcium carbon- ate	Gypsum 	Salinity	Sodium adsorp- tion ratio
	In	 meq/100 g	 meq/100 g	 pH	Pct	Pct	mmhos/cm	
AcD:			 	 	 			
Aguilita	0-11	40-50	i	7.9-8.4	35-40	o i	0.0-2.0	0-5
	11-60	30-40	ļ	7.9-8.4	75-95	0	0.0-2.0	0-5
AcE:			 	 	 			
Aguilita	0-10	40-50	i	7.9-8.4	35-40	o i	0.0-2.0	0-5
	10-60	30-40	ļ	7.9-8.4	75-95	0	0.0-2.0	0-5
Ag:			 	 		-		
Aguirre	0-10	50-60	j	7.9-8.4	j 1-5 j	o i	0.0-4.0	0-10
·	10-26	40-60	j	7.9-8.4	5-15	o į	2.0-8.0	20-40
	26-45	40-60	ļ	7.9-8.4	1-5	0	2.0-8.0	20-40
AmB:			 	 	 			
Amelia	0-9	10-20	j	5.1-7.3	j 0-5 j	o į	0.0-2.0	0-2
	9-29	10-30	j	5.6-6.5	0-10	o į	0.0-2.0	0-10
	29-43	10-30	j	6.1-6.5	2-15	o į	0.0-4.0	0-10
	43-78	10-15	ļ	6.1-7.8	2-15	0	0.0-4.0	0-15
Maguayo	 0-5	10-30	 	 5.6-6.5	 0-5	0	0.0-2.0	 0-2
- -	5-22	10-30	i	6.6-7.3	i 0-5 i	o i	0.0-2.0	0-2
j	22-48	10-30	i	7.9-8.4	10-30	o i	0.0-2.0	0-2
j	48-52	10-30	i	7.4-8.4	20-60	o i	0.0-2.0	0-2

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Chemical Properties of the Soils--Continued

Map symbol	Depth	Cation	Effective		Calcium	Gypsum	Salinity	Sodium
and soil name		exchange	cation	reaction	carbon-	-		adsorp-
· ·		capacity	exchange		ate	ļ		tion
			capacity	 		-		ratio
	In	meq/100 g	meq/100 g	pН	Pct	Pct	mmhos/cm	_
AmC2:		ļ	ļ		!!!	ļ		ļ
Amelia	0-9	10-20	ļ	5.1-7.3	0-5	0	0.0-2.0	0-2
· ·	9-29	10-30	ļ	5.6-6.5	0-10	0	0.0-2.0	0-10
· ·	29-43	10-30	ļ	6.1-6.5	2-15	0	0.0-4.0	0-10
	43-78	10-15	 	6.1-7.8 	2-15	0	0.0-4.0	0-15
Maguayo	0-5	10-30	 	5.6-6.5	0-5	0	0.0-2.0	0-2
!	5-22	10-30		6.6-7.3	0-5	0	0.0-2.0	0-2
1	22-48	10-30		7.9-8.4	10-30	0	0.0-2.0	0-2
	48-52	10-30		7.4-8.4	20-60	0	0.0-2.0	0-2
Ao:			 			ļ		
Amelia	0-9	10-20	j	5.1-7.3	0-5	0 j	0.0-2.0	0-2
· ·	9-29	10-30	j	5.6-6.5	0-10	0 j	0.0-2.0	0-10
!	29-43	10-30	j	6.1-6.5	2-15	0	0.0-4.0	0-10
	43-78	10-15	ļ	6.1-7.8	2-15	0	0.0-4.0	0-15
AsB:			 					
Bahia	0-6	1.0-5.0	j	5.1-6.0	j 0-1 j	o j	0.0-2.0	0-2
i	6-45	1.0-5.0	j	5.6-6.5	j 0-1 j	o j	0.0-2.0	0-2
	45-66	5.0-10	<u> </u>	6.1-7.3	0-1	0	0.0-2.0	0-2
Ca:			 	 				
Cartagena	0-12	40-60	i	6.1-7.8	0-2	o i	4.0-8.0	0-2
	12-24	40-60	i	6.1-7.3	1-15	o i	4.0-8.0	0-2
	24-70	20-55	ļ	6.1-8.4	5-25	ō	8.0-16.0	10-20
Cc:			[[ļ		
Cartagena Variant	0-20	 45-55	¦	 6.1-6.5	0	o i	2.0-4.0	0
	20-60	25-50	i	6.1-7.3		o i	4.0-8.0	0

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity 	Effective cation exchange capacity	Soil reaction 	Calcium carbon- ate	Gypsum 	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	-
Co:								
Coastal Beach	0-6			5.1-7.8	0	0	4.0-32.0	0
	6-80			5.1-7.8	0	0	4.0-32.0	0
DeC:			 	 				
Descalabrado	0-6	30-50	j	6.6-7.3	0-2	o j	0	j o
	6-12	20-50	j	6.6-7.3	0-2	0	0	j o
	12-16							ļ
DeD:		 	 	 				
Descalabrado	0-5	30-50	i	6.6-7.3	0-2	o i	0	j o
	5-12	20-50	j	6.6-7.3	0-2	o j	0	j o
	12-16			ļ				ļ
DeF:			 	 	 			
Descalabrado	0-4	30-50	i	6.6-7.3	0-2	o i	0	i o
	4-10	20-50	j	6.6-7.3	0-2	o į	0	j o
	10-14	j	j	j	ļ ļ	j		ļ
		<u> </u>				ļ		
?e: _			ļ				4 0 0 0	
Fe	0-7	30-60		7.9-9.0	5-20	0	4.0-8.0	5-25
	7-17 17-60	30-60 30-60	 	8.5-9.0	5-20 5-30	0 2-4	8.0-16.0 8.0-16.0	20-40
	1/-60	30-00 	 	8.5-9.0 	5-30 	4-4	8.0-16.0	20-40
FrA:		İ	i	İ	j			i
Fraternidad	0-11	35-55	j	6.1-7.8	0-2	0	0.0-2.0	0-2
	11-24	35-55	j	7.4-8.4	0-2	0	0.0-2.0	0-2
	24-50	35-50	i	7.4-8.4	i 0-1 i	0 İ	0.0-2.0	0-2

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange	Soil reaction 	Calcium carbon- ate	Gypsum 	Salinity	Sodium adsorp- tion
			capacity	 		-		ratio
	In	 meq/100 g	 meq/100 g	 рН	Pct	Pct	mmhos/cm	_ I
FrB:								
Fraternidad	0-10	35-55		6.1-7.8	0-2	0	0.0-2.0	0-2
	10-20	35-55		7.4-8.4	0-2	0	0.0-2.0	0-2
	20-60	35-50		7.4-8.4	0-1	0	0.0-2.0	0-2
Ft:		 	 	 		ľ		
Fraternidad	0-17	40-55	j	6.6-7.8	0-2	0 j	0.0-2.0	0-2
	17-32	40-60	j	7.4-7.8	j 0-7 j	o j	2.0-4.0	0-2
	32-60	35-55	ļ	7.9-8.4	0-1	5-10	8.0-16.0	0-2
FvA:		 	 	<u> </u>				
Fraternidad	0-10	35-55	i	6.1-7.8	0-2	o i	0.0-2.0	0-2
	10-25	35-55	i	7.4-8.4	0-2	o i	0.0-2.0	0-2
	25-40	40-65	i	7.4-8.4	0-10	o i	0.0-2.0	0-2
	40-60	35-50	ļ	7.4-8.4	0-1	0	0.0-2.0	0-2
FvB:]]				-
Fraternidad	0-9	35-55	i	6.1-7.8	0-2	o i	0.0-2.0	0-2
	9-22	35-55	i	7.4-8.4	0-2	o i	0.0-2.0	0-2
	22-38	40-65	i	7.4-8.4	0-10	o i	0.0-2.0	0-2
	38-60	35-50	ļ	7.4-8.4	0-1	0	0.0-2.0	0-2
Gc:		 	 	 		ļ		
Guanica	0-6	30-40	i	 7.9-8.4	0-10	o i	4.0-8.0	5-10
	6-21	30-50	i	7.9-8.4	0-10	o i	4.0-8.0	15-20
	21-32	40-50	i	7.9-8.4	0-10	o i	4.0-8.0	15-20
	32-70	40-50	i	7.9-8.4	0-10	2-4	8.0-16.0	20-30

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction 	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
Gf:	In	meq/100 g	 meq/100 g	рН	Pct	Pct	mmhos/cm	_
	0.7	1 0 5 0	 			_	0 0 0 0	
Guayabo	0-7	1.0-5.0		6.1-6.5	0-1	0	0.0-2.0	0-2
	7-55	1.0-5.0		6.1-6.5	0-1	0	0.0-2.0	0-2
	55-75	2.0-10		6.6-7.3	0-1	0	0.0-2.0	0-2
GuD:			<u> </u>				_	
Guayama	0-8	30-50	ļ	6.1-7.8	0-2	0	0	0
	8-16	35-55	ļ	6.1-7.8	0-2	0	0	0
	16-20							
GuF:			l I	 				-
Guayama	0-5	30-50	! 	 6.1-7.8	0-2	o i	0	i o
Guayama	5-18	35-55	 	6.1-7.8	0-2	o i	0	
İ	18-22							
JaB:		ļ						
Jab: Jacana	0-5	 30-50	l I	 5.6-7.8		_	0.0-2.0	_
Jacana		1	!			0		0
	5-17	30-50		5.6-7.8	0-1	0	0.0-2.0	0
	17-22 22-26	30-50	 	5.6-7.8	0-1	0	0.0-2.0	0
	22-26 		 	 	 			
JaC:			i		i i	i		
Jacana	0-6	30-50	i	5.6-7.8	0-1	o i	0.0-2.0	i o
	6-21	30-50	i	5.6-7.8	0-1	o i	0.0-2.0	i o
	21-28	30-50	i	5.6-7.8	0-1	o i	0.0-2.0	0
	28-32		i					
		İ	İ	İ	i i	i		i
JaC2:		I			ļ į	İ		İ
Jacana	0-4	30-50		5.6-7.8	0-1	0	0.0-2.0	0
	4-15	30-50		5.6-7.8	0-1	0	0.0-2.0	0
	15-23	30-50		5.6-7.8	0-1	0	0.0-2.0	0
	23-27	i	i	i	i i	i		

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	 Effective cation exchange capacity	 Soil reaction 	 Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	 meq/100 g	 meq/100 g	pH	Pct	Pct	mmhos/cm	_
JaD2:]	 				
Jacana	0-2	30-45	i	5.6-7.3	i o	o	0	i o
	2-14	30-45	i	5.6-7.3		o i	0	0
	14-18		ļ					
JcB:	 		 	 				
Jacana	0-6	30-50	i	5.6-7.8	0-1	0	0.0-2.0	i o
	6-21	30-50	i	5.6-7.8	0-1	0	0.0-2.0	i o
	21-28	30-50	i	5.6-7.8	0-1	o	0.0-2.0	i o
	28-32		į	j	ļ I			ļ
JcC:] [
Jacana	0-5	30-50	i	5.6-7.8	0-1	o	0.0-2.0	i o
	5-18	30-50	i	5.6-7.8	0-1	o i	0.0-2.0	i o
	18-26	30-50	i	5.6-7.8	0-1	o	0.0-2.0	i o
	26-30	i	i	i	i			
Lr:	İ	İ	i	j	j i	i		i
Limestone Rock Land	0-60	ļ	ļ	ļ	ļ ļ			į
MaD2:	 		<u> </u>	<u> </u>				
Mariana	0-6	j	20-40	3.5-5.0	0-2	0	0	j o
	6-18	j	20-40	3.5-5.5	0-2	0	0	j o
	18-25	j	20-40	3.5-5.5	0-2	0	0	j o
	25-29	ļ	ļ	3.5-5.5				ļ
MaE2:]]	[]		 		
Mariana	0-6	j	20-40	3.5-5.0	0-2	0	0	j o
	6-18	j	20-40	3.5-5.5	0-2	0	0	j o
	18-25	j	20-40	3.5-5.5	0-2	0	0	j o
	25-29	j	j	3.5-5.5	i i	i		

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction 	Calcium carbon- ate	Gypsum 	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	_
PaA:		ļ	ļ		!!!	ļ		ļ
Palmarejo	0-12	ļ	10-30	3.5-5.0	0-1	0	0.0-2.0	0-2
	12-22		15-25	3.5-5.0	0-2	0	0.0-2.0	0-2
	22-32		20-45	3.5-5.0	0-2	0	0.0-2.0	0-2
	32-60		15 - 35	3.5-5.0	0-2	0	0.0-2.0	0-2
PaB:		İ	! 					
Palmarejo	0-9	i	10-30	3.5-5.0	0-1	0	0.0-2.0	0-2
	9-30		15-25	3.5-5.0	0-2	0	0.0-2.0	0-2
	30-41	i	20-45	3.5-5.0	0-2	0	0.0-2.0	0-2
	41-60	ļ	15-35	3.5-5.0	0-2	0	0.0-2.0	0-2
PaC2:			 	 	 			
Palmarejo	0-8		10-30	3.5-5.0	0-1	0	0.0-2.0	0-2
_	8-22	i	15-25	3.5-5.0	0-2	o i	0.0-2.0	0-2
	22-32	i	20-45	3.5-5.0	0-2	o i	0.0-2.0	0-2
	32-60	ļ	15-35	3.5-5.0	0-2	0	0.0-2.0	0-2
PcB:]]				ļ
Poncena	0-11	40-55	i	6.6-8.4	0-2	oi	0.0-2.0	0-2
	11-30	40-55	i	6.6-8.4	0-2	o i	0.0-2.0	0-2
	30-38	40-55	i	7.9-8.4	0-2	Ö	0.0-2.0	0-2
	38-60	20-55	i	7.9-8.4	5-10	o i	0.0-2.0	0-2
		20 33	İ			i	0.0 2.0	"-
PcC2:		İ	j	j	į i	İ		İ
Poncena	0-8	40-55		6.6-8.4	0-2	0	0.0-2.0	0-2
	8-22	40-55		6.6-8.4	0-2	0	0.0-2.0	0-2
	22-31	40-55		7.9-8.4	0-2	0	0.0-2.0	0-2
	31-60	20-55	i	7.9-8.4	5-10	0 İ	0.0-2.0	0-2

Chemical Properties of the Soils--Continued

Pozo Blanco	Map symbol and soil name	Depth	Cation exchange capacity 	Effective cation exchange capacity	Soil reaction 	Calcium carbon- ate	Gypsum 	Salinity	Sodium adsorp- tion ratio
Pozo Blanco		In	meq/100 g	 meq/100 g	 рН	Pct	Pct	mmhos/cm	_
PZB: POZO Blanco				!	!	! !			
PzB: Pozo Blanco	Pozo Blanco		1	!				_	
PzB: Pozo Blanco			•	!					
Pozo Blanco		17-60 	15-30 		7.9-8.4 	20-50	0	0	0
12-18 15-30 7.4-8.4 0-10 0 0 0 0 0 0 0 0 0	PzB:			! 	! 				
PzC: Pozo Blanco	Pozo Blanco	0-12	20-35	j	7.4-7.8	0-10	0	0	j o
PzC: Pozo Blanco		12-18	15-30	j	7.4-8.4	0-10	0	0	j o
Pozo Blanco		18-60	15-30	ļ	7.9-8.4	20-50	0	0	į o
Pozo Blanco	PzC:			 	 				
PzD: Pozo Blanco		0-9	20-35	i	7.4-7.8	0-10	o	0	i o
PzD: Pozo Blanco	1010 111111		•	i		1			!
Pozo Blanco			•					_	
Pozo Blanco	D=D•			 	 				
Sa: 0-10 0 <td></td> <td>0-4</td> <td>20-35</td> <td>! !</td> <td>l l 7.4-7.8</td> <td>0-10</td> <td>0</td> <td>0</td> <td> 0</td>		0-4	20-35	! !	l l 7.4-7.8	0-10	0	0	0
Sa: San Anton	1020 Dianeo		1	! 		1			!
San Anton 0-20 20-50 6.6-8.4 0-1 0 0.0-2.0 0-2 20-40 25-50 6.6-8.4 0-1 0 0.0-2.0 0-2 40-52 20-40 6.6-8.4 0-1 0 0.0-2.0 0-2 Sc: San Anton 0-18 20-50 6.6-8.4 0-1 0 0.0-2.0 0-2			•	!				_	
San Anton 0-20 20-50 6.6-8.4 0-1 0 0.0-2.0 0-2 20-40 25-50 6.6-8.4 0-1 0 0.0-2.0 0-2 40-52 20-40 6.6-8.4 0-1 0 0.0-2.0 0-2 Sc: San Anton 0-18 20-50 6.6-8.4 0-1 0 0.0-2.0 0-2	ga.			 	 				
20-40 25-50 6.6-8.4 0-1 0 0.0-2.0 0-2		0-20	20-50	¦ 	 6 6-8 4	0-1	0	0 0-2 0	0-2
40-52 20-40 6.6-8.4 0-1 0 0.0-2.0 0-2 				 		1 -			
San Anton 0-18 20-50 6.6-8.4 0-1 0 0.0-2.0 0-2		-				!			0-2
San Anton 0-18 20-50 6.6-8.4 0-1 0 0.0-2.0 0-2									
		0 10	20 50					0 0 0 0	
18-36 25-50 6.6-8.4 0-1 0 0.0-2.0 0-2	san Anton		•	ļ		! !			
36-60 10-35 6.6-8.4 0-5 0 0.0-2.0 0-2				!					0-2
			1	ı	I	1	ı		ı

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity 	Effective cation exchange capacity	Soil reaction 	Calcium carbon- ate	Gypsum 	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	 meq/100 g	 рН	Pct	Pct	mmhos/cm	
Se:								
San Anton Variant	0-12	20-50		6.6-7.8	0-1	0	0.0-2.0	0-2
	12-25	20-35		6.6-7.8	0-1	0	0.0-2.0	0-2
	25-60	5.0-10		6.6-7.8	0-4	0	0.0-2.0	0-2
SgD:			! 	! 				1
San German	0-2	15-30	j	7.4-8.4	20-40	0	0.0-2.0	0-2
ĺ	2-8	10-20	i	7.4-8.4	40-80	0	0.0-2.0	0-2
	8-12							
SgF:		 	 	 	 			
San German	0-2	15-30	i	7.4-8.4	20-40	o i	0.0-2.0	0-2
į	2-10	10-20	j	7.4-8.4	40-80	o j	0.0-2.0	0-2
į	10-14	ļ	ļ	ļ	ļ ļ	į		į
SmE:			 	 				
San German	0-8	40-50	i	7.9-8.4	35-40	o i	0.0-2.0	i 0-5
	8-60	30-40	ļ	7.9-8.4	75-95	0	0.0-2.0	0-5
 Sn:		 	 	 				-
Santa Isabel	0-10	30-60	i	6.6-7.3	0-5	o i	0.0-2.0	0-2
	10-69	30-65	ļ	6.6-7.8	0-5	o	0.0-2.0	0-2
SOA:			 	 				-
Sosa	0-5	5.0-20	i	5.6-6.5	0-2	o i	0.0-2.0	0-2
	5-12	5.0-20	i	5.6-6.5	0-2	o i	0.0-2.0	0-2
i	12-20	5.0-20	i	6.6-7.3	0-2	o i	0.0-2.0	0-2
i	20-33	2.0-15	i	6.6-7.3	0-2	o i	0.0-2.0	0-2
i	33-63	2.0-15	i	6.6-7.3	0-2	o i	0.0-2.0	0-2

Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth 	Cation exchange capacity 	Effective cation exchange capacity	Soil reaction 	Calcium carbon- ate 	Gypsum 	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	-
ssB:								
Sosa	0-5	5.0-20	ļ	5.6-6.5	0-2	0	0.0-2.0	0-2
	5-12	5.0-20	ļ	5.6-6.5	0-2	0	0.0-2.0	0-2
	12-20	5.0-20	ļ	6.6-7.3	0-2	0	0.0-2.0	0-2
	20-33	2.0-15	ļ	6.6-7.3	0-2	0	0.0-2.0	0-2
	33-63	2.0-15	 	6.6-7.3	0-2	0	0.0-2.0	0-2
SsD2:	 	İ	 	 				
Sosa	0-4	5.0-20	i	5.6-6.5	0-2	0	0.0-2.0	0-2
	4-8	5.0-20	i	5.6-6.5	0-2	0	0.0-2.0	0-2
	8-15	5.0-20		6.6-7.3	0-2	0	0.0-2.0	0-2
	15-24	2.0-15	j	6.6-7.3	0-2	0 j	0.0-2.0	0-2
	24-63	2.0-15		6.6-7.3	0-2	0	0.0-2.0	0-2
'c:	 	 	 	 	 			
Teresa	0-7	20-40	i	7.4-9.0	0-2	o i	8.0-22.0	15-20
	7-60	25-40		7.4-9.0	1-5	0	8.0-22.0	15-20
'f:	 		 	 				
Tidal Flats	0-60				ļ ļ		16.0-32.0	ļ
's:	 		 	 	 			
Tidal Swamp	0-60			6.1-7.8	ļ ļ		16.0-32.0	ļ
a:	 	 	 	 	 			
Vayas	0-7	20-40	j	6.6-7.8	0-2	o i	0.0-2.0	2-4
-	7-47	25-50	i	6.6-8.4	1-5	o i	0.0-2.0	4-10
	47-71	25-40	i	6.6-8.4	1-5	o i	2.0-4.0	2-4